AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Original) An apparatus for generating auto-stereo three-dimensional views from a plurality of points of view, said apparatus comprising:

an image on a substrate, the image containing dark separation lines between cells and the substrate being of a medium of sufficient transparency to allow light therethrough;

a light source for illuminating said image; and

a slit-type barrier screen placed in front of said image to provide a parallax effect, said barrier screen consisting of a substantially opaque surface with clear, staggered apertures through which light can pass from a first side to a second side;

wherein said dark separation lines of said image have a rippled shape corresponding to said staggered apertures and prevent image bleeding between said cells.

2. (original) An apparatus as claimed in claim 1, wherein said apertures are short, vertical apertures of equal width and length.

3. (original) An apparatus as claimed in claim 2, wherein said apertures are aligned in a plurality of horizontal rows, and each of said plurality of horizontal rows is staggered horizontally with respect to a subsequent row.

4. (original) An apparatus as claimed in claim 3, wherein each of said plurality of horizontal rows is vertically spaced from said subsequent row to eliminate vertical distortions.

5. (original) An apparatus as claimed in claim 1, wherein said apertures vary in width and length.

6. (original) An apparatus as claimed in claim 1, wherein said plurality of points of view is at least 1000.

7. (original) An apparatus as claimed in claim 1, wherein said barrier screen comprises a film having at least one opaque layer and an additional layer, said opaque layer and said additional layer each having said clear, staggered apertures.

8. (currently amended) An apparatus as claimed in claim 7, wherein said ~~additional~~ opaque layer has a back side facing a viewer and covered in a dark material.

9. (original) An apparatus as claimed in claim 8, wherein said dark material is black ink.

10. (currently amended) An apparatus as claimed in claim 7, wherein said at least one ~~opaque~~ additional layer has a back side facing said image and said light, and covered by a highly reflective material.

11. (currently amended) An apparatus as claimed in claim 7, wherein said apertures in said ~~additional~~ opaque layer are thinner than said apertures in said at least one ~~opaque~~ additional layer.

12. (original) An apparatus as claimed in claim 1, wherein said substrate is a spacer placed between said image and said barrier for maintaining said parallax effect.

13. (original) An apparatus as claimed in claim 12, wherein said spacer is a fully transparent spacer substantially equal in area to said barrier screen.

14. (original) An apparatus as claimed in claim 1, wherein said substrate is treated for printing, sunlight, waterproofing, and heat resistance.

15. (original) An apparatus as claimed in claim 12, wherein said spacer, said image and said barrier screen are bonded together.

16. (original) An apparatus as claimed in claim 15, wherein said spacer, said image and said barrier screen are aligned to obtain a precise alignment thereof.

17. (original) A method for providing auto-stereo three-dimensional views from a plurality of points of view, the method comprising:

providing an image on a substrate made of a medium of sufficient transparency to allow light therethrough, said image being made up of a plurality of cells;

placing a barrier screen in front of said image to provide a parallax effect, said barrier screen consisting of an optical arrangement providing apertures through which light can pass, each of said apertures defining a window onto one of said plurality of cells and configured such that a view of a neighboring cell is obstructed from all of said points of view; and

illuminating said image using a light source.

18. (original) A method as claimed in claim 17, wherein said placing a barrier screen comprises aligning said barrier screen and said image to obtain a precise alignment thereof.

19. (original) A method as claimed in claim 17, wherein said providing an image comprises providing a computer-processed image.

20. (original) A method as claimed in claim 17, wherein said placing a barrier screen comprises placing a slit-type barrier screen.

21. (original) A method as claimed in claim 20, wherein said providing an image comprises providing said image with dark separation lines between said cells.

22. (original) A method as claimed in claim 21, wherein said placing a barrier screen comprises placing a barrier screen having said apertures aligned in a plurality of horizontal rows, and each of said plurality of horizontal rows is staggered horizontally with respect to a subsequent row.

23. (cancelled) ~~A method as claimed in claim 17, wherein said placing a barrier screen comprises printing a mask onto a backside of said substrate, said image is printed on a front side of said substrate, and said substrate is transparent.~~

~~24~~23. (currently amended) A method of manufacturing a portion of an apparatus for three-dimensional auto-stereo image to be used with a light source in order to produce said auto-stereo image, the method comprising ~~printing~~ bonding onto a first side of a transparent substrate an image having a plurality of cells making up said image, the image containing dark separation lines between cells, said dark separation lines of said image have a rippled shape to prevent image bleeding between said cells, and ~~printing~~ bonding onto a second side of said transparent substrate a barrier screen in order to get a desired effect, said barrier screen comprising an optical arrangement providing apertures through which light can pass, each of said apertures defining a window onto one of said plurality of cells.

~~25~~24. (currently amended) A method as claimed in claim ~~24~~23, wherein said transparent substrate is a transparent flexible sheet.

~~26~~25. (currently amended) A method as claimed in claim ~~25~~24, wherein said flexible sheet is a film.

27. (canceled) ~~A method as claimed in claim 24, wherein said barrier screen comprises an optical arrangement providing apertures through which light can pass, each of said apertures defining a window onto one of said plurality of cells and configured such that a view of a neighboring cell is obstructed.~~

~~28~~26. (currently amended) A method as claimed in claim ~~27~~23, wherein said barrier screen is a slit-type barrier screen.

29. (canceled) ~~A method as claimed in claim 28, wherein said image comprises dark separation lines between said cells.~~

~~30~~27. (currently amended) A method as claimed in claim ~~29~~23, wherein said apertures are aligned in a plurality of horizontal rows, and each of said plurality of horizontal rows is staggered horizontally with respect to a subsequent row.

~~31~~28. (currently amended) A method as claimed in claim ~~30~~27, wherein each of said plurality of horizontal rows is vertically spaced from said subsequent row to eliminate vertical distortions.

~~32~~29. (currently amended) A method as claimed in claim ~~24~~23, wherein said ~~printing~~ bonding onto a first side comprises printing using ink having given translucency properties and taking into account said translucency properties to adjust a layer of thickness of said ink so as to provide a desired brightness of said image.

~~33~~30. (currently amended) A method as claimed in claim ~~24~~23, wherein said ~~printing~~ bonding onto a second side comprises printing using highly reflective ink.

~~34~~31. (currently amended) A method as claimed in claim ~~24~~23, wherein said ~~printing~~ bonding onto a second side comprises printing a first layer and printing a second layer, said first layer and said second layer each having said clear, staggered apertures.

~~35~~32. (currently amended) A method as claimed in claim ~~34~~31, wherein said printing a second layer comprises printing using black ink.

~~36~~33. (currently amended) A method as claimed in claim ~~34~~31, wherein said printing a first layer comprises printing using a highly reflective ink.

~~37~~34. (currently amended) A method as claimed in claim ~~34~~31, wherein said printing a first layer and printing a second layer comprises providing apertures in said second layer that are thinner than apertures in said first layer.